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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,878	10/09/2003	Vincent L. Chiang	044463-0336	8100
22428 7590 11/14/2007 FOLEY AND LARDNER LLP SUITE 500			EXAMINER	
			BAUM, STUART F	
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			11/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Ampliantian No.	Applicant/s)			
•	Application No.	Applicant(s)			
	10/681,878	CHIANG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Stuart F. Baum	1638			
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IF Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU .136(a). In no event, however, may d will apply and will expire SIX (6) No te, cause the application to become	NICATION. a reply be timely filed IONTHS from the mailing date of this communication. BABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 29	Responsive to communication(s) filed on 29 August 2007.				
, <b>-</b>					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 (	C.D. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 27 and 29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 27 and 29 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examination The drawing(s) filed on 10/9/2003 & 6/29/2000  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.  The oath or declaration is objected to by the	$\frac{0.6}{100}$ is/are: a) $\boxed{\square}$ accepted ne drawing(s) be held in abection is required if the draw	yance. See 37 CFR 1.85(a). ing(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	Paper 5) Notice	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application			

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## **DETAILED ACTION**

1. The amendment filed 8/29/2007 has been entered.

2. Claims 27 and 29 are pending.

Claims 1-26 and 28 have been canceled.

3. Applicants have amended claim 27 to be drawn to SEQ ID NO:10 and have traversed the withdrawal of said claim as indicated in the office action mailed 5/30/2007.

- 4. Claims 27 and 29, including SEQ ID NO:10 are examined in the present office action.
- 5. Rejections and objections not set forth below are withdrawn.
- 6. The text of those sections of Title 35, U.S. Code not included in this office action can be found in a prior office action.

### New Matter

7. Claim 29 remains rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This rejection is maintained for the reasons of record set forth in the Official action mailed 5/30/2007. Applicant's arguments filed 8/29/2007 have been fully considered but they are not persuasive.

Applicants contend support for "wherein said promoter region directs gene expression and includes two GGTAGGTA binding sites" can be found, *inter alia* in paragraph [0045]

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bridging pages 9-10, in Figure 6 and in SEQ ID NO:10 (paragraph bridging pages 5 and 6 of Remarks).

The Office contends the specified locations within the specification filed 6/29/2006 do not explicitly point out two binding sites with the specified sequence. The Office contends the two GGTAGGTA binding sites were not previously contemplated at the time of filing.

## Written Description

Claim 29 remains rejected under 35 U.S.C. 112, first paragraph, as containing subject 8. matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This rejection is maintained for the reasons of record set forth in the Official action mailed 1/30/2006 and 5/30/2007. Applicant's arguments filed 8/29/2007 have been fully considered but they are not persuasive.

Applicants contend they have sufficiently disclosed the invention to meet the written description requirement in line with the reasoning provided by the Federal Circuit (page 7 of Remarks, 3<sup>rd</sup> full paragraph). Applicants state "With regards to recitation of known structure, Faulkner explicitly holds: "it is the binding precedent of this court that Eli Lilly does not set forth a per se rule that whenever a claim limitation is directed to a macromolecular sequence, the specification must always recite the gene or sequence, regardless of whether it is known in the prior art."" (page 7 of Remarks, 2<sup>nd</sup> full paragraph).

The Office contends that Applicants have not disclosed a representative number of sequences comprising a fragment of SEQ ID NO:10 which comprises two GGTAGGTA binding

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sites and has the required promoter activity, nor have Applicants disclosed essential regions other than the two GGTAGGTA binding sites which are required for the required promoter activity.

Applicants have only disclosed one sequence of SEQ ID NO:10.

#### Enablement

9. Claim 29 remains rejected and claim 27 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. This rejection is maintained for the reasons of record set forth in the Official action mailed 1/30/2006 and 5/30/2007. Applicant's arguments filed 8/29/2007 have been fully considered but they are not persuasive.

Applicants state "Specifically, the Office action recognizes that the specification provides enablement for the promoter region of the 4CL gene having SEQ ID NO:10" (page 8 of Remarks, 2<sup>nd</sup> paragraph).

The Office contends that it **does not** recognize that the specification provides enablement for the promoter region of the 4CL gene having SEQ ID NO:10.

Applicants contend amended claim 29 is directed to a specific 4CL promoter region that is essential for correct promoter activity (page 9 of Remarks, 1<sup>st</sup> full paragraph).

The Office contends Applicants have only disclosed SEQ ID NO:10 and a method for isolating said sequence. Applicants have not disclosed if in fact SEQ ID NO:10 comprises the necessary elements essential and sufficient for promoter activity. Applicants have not disclosed the spatial and temporal expression pattern that is the result of the promoter activity of SEQ ID

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NO:10. In fact, Applicants have not disclosed if the isolated promoter has any promoter activity at all. Therefore, given the state-of-the-art, and unpredictability as stated in the office action 1/30/2006, Applicants are not enabled for the claimed invention. The Office notes that the Rottmann §1.132 Declaration filed 3/20/2007 is drawn to SEQ ID NO:11 and not the instantly claimed invention of SEQ ID NO:10.

- 10. No claims are allowed.
- 11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stuart F. Baum whose telephone number is 571-272-0792. The examiner can normally be reached on M-F 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached at 571-272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stuart F. Baum Ph.D. Primary Examiner Art Unit 1638 November 8, 2007

STUART F BAUM, PH.L PRIMARY EXAMINER